

FEMA Geospatial Coordination Call

Hurricane Michael

October 12, 2018 2:00 PM EST

Conference Bridge: 800-320-4330, Passcode:247327#

Adobe Connect:


<https://fema.connectsolutions.com/geospatialcoordinationcall/>

Link to Storymap: <https://arcg.is/0f0Cr8>

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1. Geospatial Coordination Call Info



GeoPlatform Disasters

FEMA GEOSPATIAL COORDINATION CALL

Hurricane Michael

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Conference Bridge: 800-320-4330, Passcode: 247327#

Adobe Connect: <https://fema.connectsolutions.com/geospatialcoordinationcall/>

Coordination Call Story Map: <https://arcg.is/Of0Cr8>

Updated on October 12, 2018

FEMA Hurricane Incident Journal:

<https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5>

FEMA GIS Portal:

<http://fema.maps.arcgis.com/>

FEMA GIS Portal:

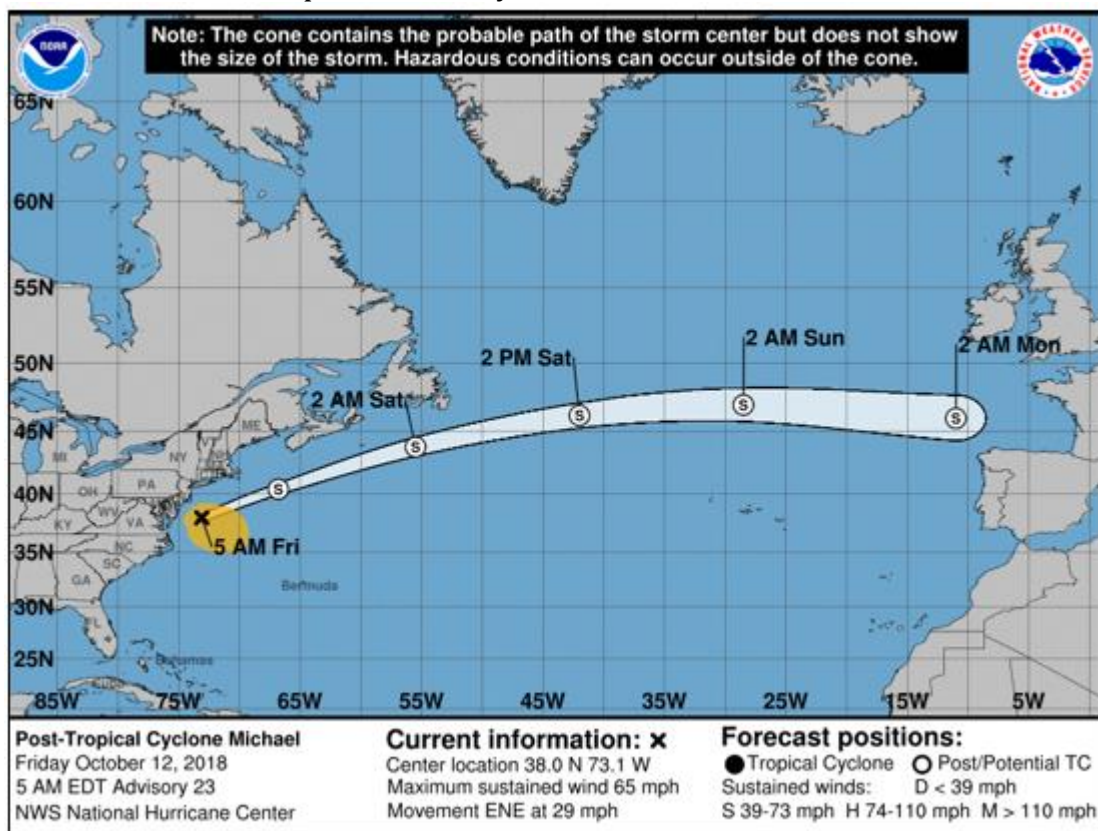
<https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0>

2. Situational Overview

October 12, 2018

Post Tropical Storm Michael (Advisory #23 as of 5:00 a.m. EDT)

- Located 185 miles ENE of Norfolk, VA; moving ENE at 29 mph
- Maximum sustained winds 65 mph
- Some additional strengthening is expected today and tonight
- Tropical storm force winds extend 275 miles
- All Watches and warning discontinued
- This is the last public advisory issued



- **Forecast Impacts**
 - **Gale winds** may continue for a few more hours over portions of SE VA, the southern Chesapeake Bay and Delmarva Peninsula
 - **Rainfall:** Expected to produce **1 to 3 inches** from NJ to Long Island to Cape Cod, and **3-5 inches** over Nantucket and Martha's Vineyard. Flooding and flash flooding may continue in the Carolinas and the Mid-Atlantic states. Coastal **1-3 inches** expected across northern Mid-Atlantic and Southern New England
- **Lifeline Priorities**
 - **Safety & Security** – (FL / GA / AL / NC / SC)
 - US&R:
 - Pensacola, FL: Red IST, IST cache, FSARCG
 - Maxwell AFB, AL: 4 NIMS Type -1; 2 MRPs – water rescue; 1 HEPP
 - Panama City, FL: 4 MRPs – water rescue conducting ground based wide area search operations

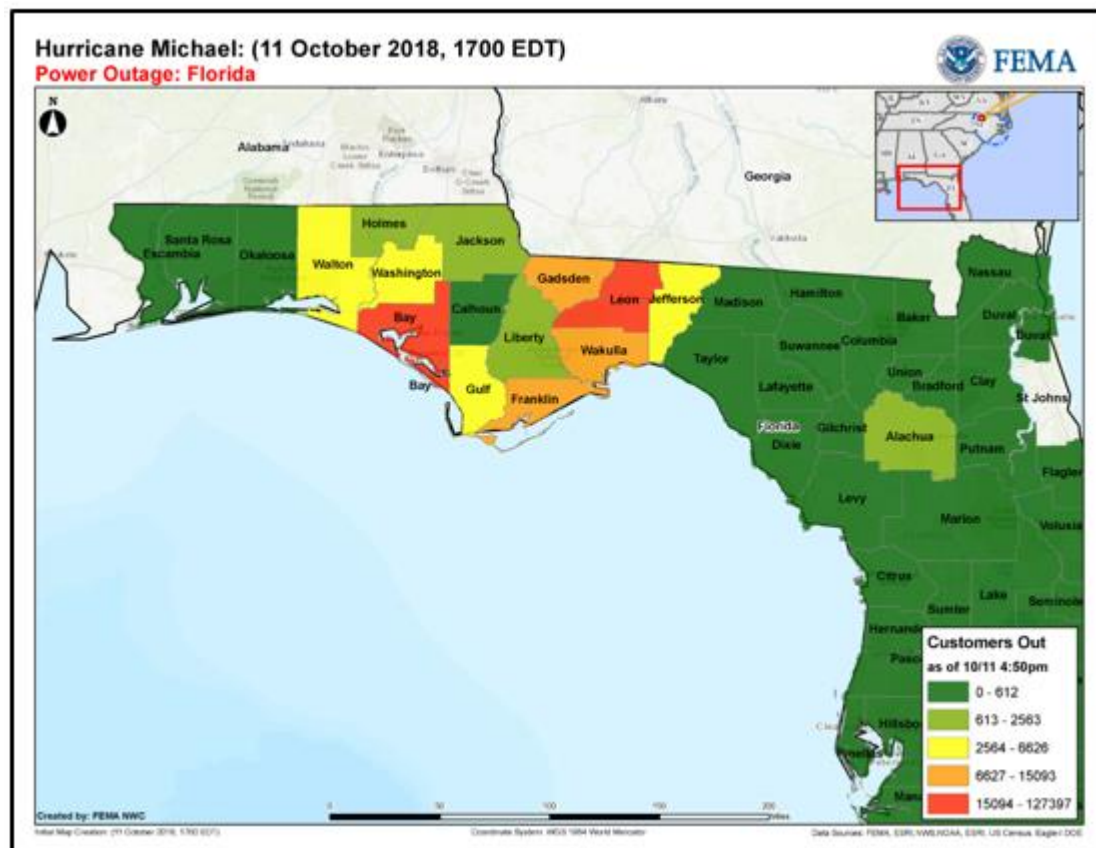
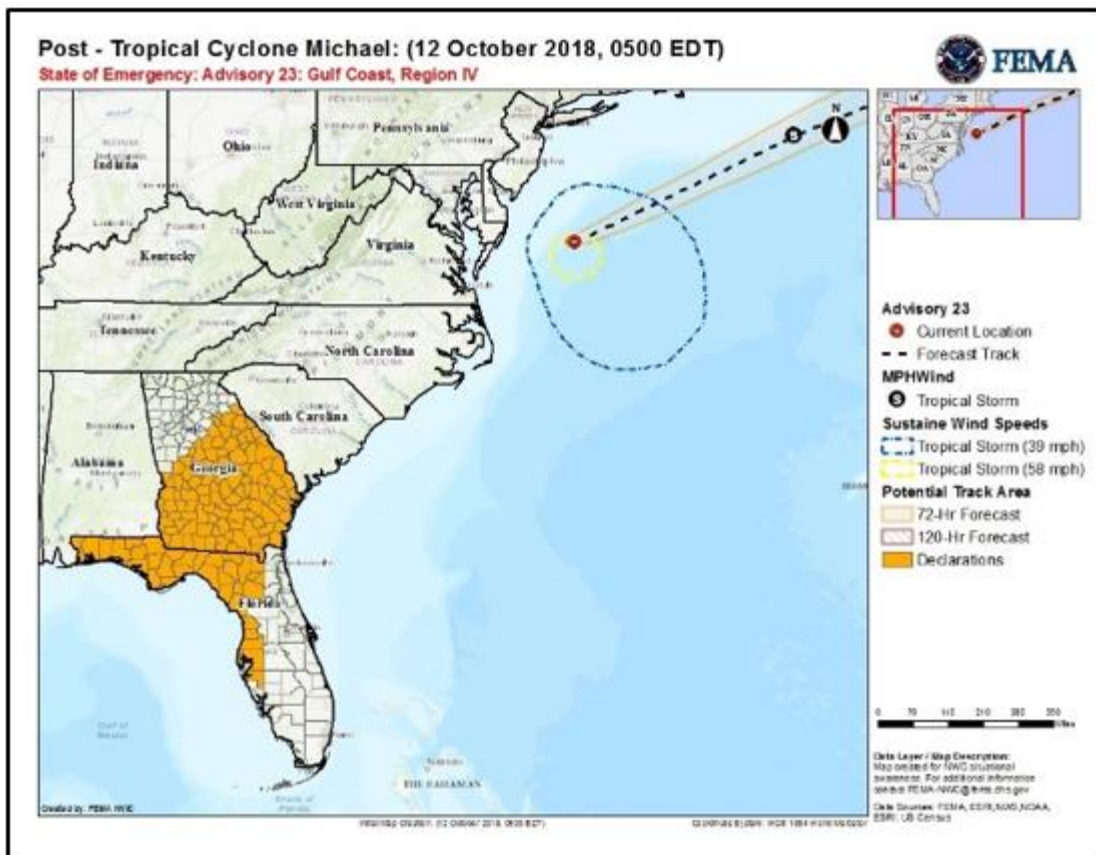
- **Food, Water and Shelter – (FL / GA / AL / NC / SC)**
 - Shelters/Occupants:
 - FL: 33/3,846
 - AL: 2/26
 - GA: 4/53
 - SC: 16/75
 - NC: 5/0 (*ESF 6*)
 - FL: Mandatory evacuations for 6 counties; voluntary evacuations for 5 counties
 - Water: FL: Water to Okaloosa Island shut off; Bay county under boil water advisory; GA: 7 counties under boil water advisories
- **Health and Medical – (FL / GA / AL / NC / SC)**
 - GA (of 139 medical facilities) 2 Dialysis centers closed
 - FL: 4 hospitals, 41 dialysis centers, 9 nursing facilities and 14 assisted living facilities closed; 4 Hospitals and 4 nursing facilities evacuated
 - HHS DMATS: FL: 6; AL 1 (and 1 DMORT); 1 cache staged in Atlanta, GA
- **Energy – (FL / GA / AL / NC / SC)**
 - Power Outages: (as of 7:45 am EDT) (*Region IV ESF 12*)
 - VA – 517k
 - NC -497k
 - FL – 351k
 - GA – 305k
 - SC – 700k
 - AL – 66k
- **Transportation – (FL / GA / AL / NC / SC)**
 - Hwy:
 - Multiple roads, bridges and interstates closed
 - Airports:
 - FL: All civilian airports in Florida are open
 - GA: All airports open
 - AL: Dothan Regional re-opened
 - Port Conditions:
 - FL: Cedar Key, Panama City, and all ports from Tarpon Springs north closed (Zulu). Pensacola has reopened
 - GA: Savannah and Brunswick open with restrictions
 - AL: All ports open
- **Hazardous Waste – (FL / GA / AL / NC / SC)**
 - No Updates
- **Communications – (FL / GA / AL / NC / SC)**
 - Cellular networks over 90% available across affected regions with localized outages

3. FEMA Regional Updates

October 12, 2018

Regional Updates:

- **FEMA R IV:**
 - RRCC at Level I (24/7) with all ESFs, DCO/DCE and DHS NPPD
 - LNOs deployed to FL, GA and AL
 - IMAT-2 deployed to FL EOC
 - Link for the map journal created and being used in Region 4 RRCC:
 - <http://arcg.is/18PPe0>
- **State Response:**
 - **Alabama:**
 - AL EOC at Full Activation
 - Governor declared a statewide state of emergency
 - Governor requested an Emergency Declaration on October 10
 - **Florida:**
 - Incident level journal for FL being built out at:
 - <http://arcg.is/em5f0>
 - Governor declared a state of emergency for 35 counties
 - Emergency Declaration FEMA-3405-EM-FL approved on October 9
 - Major Disaster Declaration FEMA-4399-DR-FL approved on October 11
 - **Georgia:**
 - Governor declared state of emergency for 108 counties
 - Emergency Declaration FEMA-3406-EM-GA approved on October 10
 - **North Carolina:**
 - NC EOC at Partial Activation
 - Governor declared a statewide state of emergency.
 - **South Carolina:**
 - SC returned to Monitoring
 - **Tennessee:**
 - TN EOC at Monitoring (EMAC support)
 - **Virginia:**
 - VA EOC at Full Activation; Governor declared a state of emergency
 - **Delaware:**
 - DE EOC at Monitoring
 - If you need access to State SAR Field Data use this form:
 - <https://arcg.is/1zefHn>



4. FEMA JFO Updates

Operations:

- No updates

Updated on October 9, 2018

5. FEMA HQ NRCC Updates

FEMA GIS Links:

- FEMA GIS Portal:
 - <https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0>
- FEMA Hurricane Incident Journal:
 - <https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5>
- *Disasters GeoPlatform* :
 - <https://disasters.geoplatform.gov/wa/home/>
 - Notes: This data is available to the public, and categorized by lifeline for users to browse.
- Joint Search and Rescue Activity Story Map Series:
 - <https://fema.maps.arcgis.com/apps/MapSeries/index.html?appid=7477ed4cea264a78b89cb6f8c7971911>

Other GIS Links:

- *NASA Disasters GIS Portal*:
 - <https://maps.disasters.nasa.gov/arcgis/home/group.html?id=e675b5aa304c42dea82b58821d19c761>
- *Voyager Imagery Indexing System*:
 - http://ec2-54-193-25-181.us-west-1.compute.amazonaws.com/navigo/search?sort=score&stats=true&stats.field=fd_acquisition_date&fq=fs_usgs_dataset_fullname:201809_Hurricane_Florence&isp=D165438F7476&view=card&sortdir=desc
- *NAPSG Situational Awareness Viewer*:
 - <https://www.napsgfoundation.org/resources/napsg-situational-awareness-viewer/>
- *NAPSG 2018 Hurricane Crowdsourced Photos*:
 - <https://www.arcgis.com/apps/StoryMapCrowdsource/index.html?appid=69b95886cf8e49a3a349c9d550174a91>

October 12, 2018

I. General:

- - NRCC at Level I (24/7) with all LNOs and all ESFs
 - National IMAT East deployed to FL EOC
 - Region II IMAT deployed to AL EOC
 - Region V IMAT deployed to GA EOC
 - ISB Team deployed to Montgomery, AL
 - Staging areas: Montgomery, AL (Maxwell AFB); Fayetteville, NC (Ft Bragg); North AF AUX, SC

II. Production and Modeling:

- - PNNL Hindcast flood extent is now available on the internal J drive

III. Remote Sensing:

- Coordination Call:
 - Daily at 2:30 PM EST
 - Adobe Connect: <https://fema.connectsolutions.com/rscoordinationcall>
 - Conference Bridge: 800-320-4330, Passcode: 247327#

IV. Crowdsourcing:

- The FEMA Crowdsourcing Unit is coordinating crowdsourcing efforts with various Digital Volunteer Networks (DVNs) and also collaborating with the private sector and other partners to access crowdsourced data from existing crowdsourcing platforms to provide situational awareness at the FEMA National Response Coordination Center (NRCC). These crowdsourcing resources are organized by FEMA's Lifelines and are intended to fill any gaps and provide redundancy to the official response efforts by leveraging nontraditional sources of information and digital volunteers. See this [Google Doc](#) for the most updated version of the table. See this [Google Slide Deck](#) for updates from DVNs (*Google Doc and Slides accessible in Microsoft Edge web browser*). Crowdsourcing Resources will be provided by lifelines in this Story Map for future calls as they have more significant activity.
 - Daily Crowdsourcing Coordination Call at 1700 (5:00 pm EST) for 1 hour
 - Zoom Webinar Link: <https://zoom.us/j/2228882929>
 - Call-In Number: +16699006833, 2228882929#
 - Slack Channel: <https://femacrowdsourcing.slack.com>
 - Email: FEMA-Crowdsourcing@fema.dhs.gov
- Digital Volunteer Network (DVN) Crowdsourcing Project
 - [GISCorps](#) and [NAPSG Foundation](#) created [2018 Hurricanes Crowdsourced Photos Story Map](#) (<http://bit.ly/2018HurricanePhotos>) to crowdsource the collection of photos from social media and other online sources providing imagery of on-the-ground impacts to all lifelines. Currently, it still includes photos from Hurricane Florence but is still active for Hurricane Michael.

V. USAR:

- No new updates

6. LIFELINE 1: SAFETY & SECURITY

SAFETY & SECURITY

KEY CONCERNS

Public Works and Engineering

- Infrastructure protection and emergency repair
- Infrastructure restoration
- Engineering services and construction management
- Emergency contracting support for life-saving and life-sustaining services

Firefighting

- Coordination of Federal firefighting activities
- Support to wildland, rural, and urban firefighting operations

Search and Rescue

- Life-saving assistance
- Search and rescue operations

Public Safety and Security

- Facility and resource security
 - Security planning and technical resource assistance
 - Public safety and security support
 - Support to access, traffic, and crowd control
-

AGENCIES

- Department of Defense (U.S. Army Corps of Engineers)
 - Department of Agriculture (U.S. Forest Service)
 - Department of Homeland Security (FEMA)
 - Department of Justice
-

DATA LINKS

- *NASA Disasters GIS Portal:*
 - <https://maps.disasters.nasa.gov/arcgis/home/group.html?id=e675b5aa304c42dea82b58821d19c761>
- *NAPSG Situational Awareness Viewer:*
 - <https://www.napsgfoundation.org/resources/napsg-situational-awareness-viewer/>
- *NAPSG 2018 Hurricane Crowdsourced Photos:*
 - <https://www.arcgis.com/apps/StoryMapCrowdsource/index.html?appid=69b95886cf8e49a3a349c9d550174a91>
- *Civil Air Patrol Imagery Uploader:*
 - <https://communities.geoplatform.gov/disasters/civil-air-patrol-cap-browser/>

DAILY UPDATES
October 11, 2018

- **Pacific Disaster Center**

- **South Carolina** (peak wind gust 80 mph):
 - 0 Households displaced
 - 569 thousand tons of Debris with 44 thousand tons impacting public right of ways
 - \$115 Million in Direct Economic Losses
 - Including \$112 Million in Residential Building Damages based on replacement value
 - The highest losses occur in Richland County, SC (\$20 Million)
 - 1,000 potentially Damaged structures in **South Carolina**. Including:
 - 0 Destroyed
 - 0 Major
 - 20 Minor
 - 1,000 Affected
- **Due to increased intensity before landfall, please see updated Hazus analysis**
- Please find attached Hazus Wind Loss estimates developed by FEMA and the PDC for Alabama, Florida, Georgia and South Carolina based on Advisory 17, 5:00pm EDT, 10/10/18. Note that these estimates can and will change with each new advisory. Wind losses with this advisory have increased based on a higher forecast intensity at landfall and notably the wind losses are greatest in Georgia due to larger population centers being impacted.
- Based on Advisory 17, potential wind losses for the region include:
 - **Florida** (peak wind gust 147 mph):
 - 2,500 Households displaced
 - 6.0 million tons of Debris with 0.500 million tons impacting public right of ways
 - \$1.6 Billion in Direct Economic Losses
 - Including \$1.2 Billion in Residential Building Damages based on replacement value
 - The highest losses occur in Bay County, FL (\$627M); Calhoun County, FL (\$219M); Gulf County, FL (\$200M); Jackson County, FL (\$570M).
 - 33,000 potentially Damaged structures in **Florida**. Including:
 - 1,500 Destroyed
 - 2,500 Major
 - 8,700 Minor
 - 20,000 Affected
 - The following counties have >100 Destroyed Residential Structures: Bay County (319); Calhoun County (341); Gulf County (159); and Jackson County (658).
 - **Georgia** (peak wind gust 143 mph):
 - 3,500 Households displaced
 - 7.0 million tons of Debris with 0.500 million tons impacting public right of ways
 - \$2.3 Billion in Direct Economic Losses

- Including \$1.6 Billion in Residential Building Damages based on replacement value
 - The highest losses occur in Dougherty County, GA (\$1.0 Billion) and Seminole County, GA (\$458 Million).
 - 46,000 potentially Damaged structures in **Georgia**. Including:
 - 1,700 Destroyed
 - 2,900 Major
 - 12,000 Minor
 - 30,000 Affected
 - The following counties have >100 Destroyed Residential Structures: Dougherty County (398); Lee County (112); Miller County (250); and Seminole County (691).
- - - **Alabama** (peak wind gust 114 mph):
 - 20 Households displaced
 - \$26 Million in Direct Economic Losses
 - Including \$22 Million in Residential Building Damages based on replacement value
 - 900 potentially Damaged structures in **Alabama**. Including:
 - 20 Destroyed
 - 20 Major
 - 100 Minor
 - 700 Affected

Register here for a DisasterAWARE™

Account: <https://emops.pdc.org/emops/public/registeruser.jsp>

Please advise response@pdc.org if you require additional support.

- **FEMA Crowdsourcing**
 - **DVN Crowdsourcing Projects**
 - [CrowdSource Rescue \(CSR\)](#) stood up [CSR: Hurricane Michael Web Platform](#) to compile rescue requests including animal rescues from nontraditional channels and connect them to professional first responders, vetted civilian rescue teams, and other spontaneous volunteers providing rescue assistance.
 - [NAPSG](#) and **FEMA** created [Joint Search and Rescue \(SAR\) Activity Story Map Series](#) to show where SAR Teams are active based on data from FEMA USAR, State and Local SAR, and CrowdSource Rescue.
- **Red Cross**
 - Red Cross Impact Assessment App:
 - <https://maps.rcview.redcross.org/portal/apps/MapSeries/index.html?apid=8c501d3b959444d38425fe77f924e726>

7. LIFELINE 2: FOOD, WATER, SHELTERING

FOOD, WATER, SHELTERING

KEY CONCERNS

Mass Care, Emergency Assistance, Temporary Housing and Human Services

- Mass care
- Emergency assistance
- Disaster housing
- Human services

Logistics Management and Resource Support

- Comprehensive, national incident logistics planning, management, and sustainment capability
- Resource support (facility space, office equipment and supplies, contracting services, etc.)

Public Works and Engineering

- Infrastructure protection and emergency repair
- Infrastructure restoration
- Engineering services and construction management
- Emergency contracting support for life-saving and life-sustaining services

AGENCIES

- Department of Homeland Security (FEMA)
 - General Services Administration and Department of Homeland Security (FEMA)
 - Department of Defense (U.S. Army Corps of Engineers)
-

DAILY UPDATES

October 11, 2018

- **FEMA Crowdsourcing**
 - **DVN Crowdsourcing Projects**
 - [Code for America Brigades](#) created [org](#) to consolidate links to disaster resources as well as provide a comprehensive map of distribution points and all open shelters.
 - [Crowd Emergency Disaster Response \(CEDR\) Digital Corps](#) created the [Hurricane Michael Shelters Crowdsourced Data](#) (also available in the [NAPSG Situational Awareness Viewer](#)) to provide a map of open shelters and those only open to county residents.
 - **Existing Crowdsourcing Platforms**
 - [Airbnb Open Homes](#) is activated for [Hurricane Michael](#) from October 8 to 29, 2018 to allow Airbnb hosts in parts of Florida, Georgia, and Alabama to donate their homes to provide free emergency shelter for displaced neighbors and relief workers deployed to help.
 - [Google My Business](#) provides a popular times graph, wait time, and visit duration estimates as well as live visit data for some businesses on Google Maps. We plan to follow up with **Google** again to see if they can

provide FEMA with graphs and static maps of Google Real Time “Busyness Data” of businesses organized by lifelines in the affected region aggregated at a zip code level as they did for Hurricane Florence.

- [SABER Business Disruptions Map](#) is a map of certain types of businesses that are disrupted with an indication if they are open or closed.

October 10, 2018

- **FEMA Crowdsourcing**

- Waze Crisis team shared a list of the [shelters being collected here](#). If you have another source of shelters, please share with the Waze team so they can keep up to date as well.

8. LIFELINE 3: HEALTH & MEDICAL

HEALTH & MEDICAL

KEY CONCERNS

Public Health and Medical Services

- Public health
 - Medical
 - Mental health services
 - Mass fatality management
-

AGENCIES

- Department of Health and Human Services
-

DAILY UPDATES

October 11, 2018

- **Existing Crowdsourcing Platforms**
 - [Healthcare Ready](#) developed [RxOpen](#) for the public to help patients find nearby open pharmacies in areas impacted by a disaster.
 - [HHS emPOWER Map 3.0](#) provides the number of Medicare patients that are dependent on electricity.

9. LIFELINE 4: ENERGY (POWER, FUEL)

KEY CONCERNS

Energy

- Energy infrastructure assessment, repair, and restoration
- Energy industry utilities coordination
- Energy forecast

AGENCIES

- Department of Energy

DAILY UPDATES

October 11, 2018

- **FEMA Crowdsourcing**
 - **Existing Crowdsourcing Platforms**
 - [GasBuddy](#) activated their fuel availability tracker in Florida, Alabama, and Georgia to provide real-time updates of gas stations that have fuel and power. [GasBuddy Fuel Availability & Station Outages Dashboard](#) provides live percentage updates of gas stations without fuel in major cities / DMAs in 3 states.
 -

[HHS emPOWER Map 3.0](#) provides the number of Medicare patients that are dependent on electricity.

10. LIFELINE 5: COMMUNICATION

COMMUNICATION

KEY CONCERNS

Communications

- Coordination with telecommunications and information technology industries
 - Restoration and repair of telecommunications infrastructure
 - Protection, restoration, and sustainment of national cyber and information technology resources
 - Oversight of communications within the Federal incident management and response structures
-

AGENCIES

- Department of Homeland Security (National Communications System)
-

DAILY UPDATES

October 11, 2018

- **FEMA Crowdsourcing**
 - [Humanity Road](#) collaborated with Facebook to develop [Facebook Disaster Maps](#) of user location movement and network coverage.

11. LIFELINE 6: Transportation

KEY CONCERNS

Transportation

- Aviation/airspace management and control
- Transportation safety
- Restoration and recovery of transportation infrastructure
- Movement restrictions
- Damage and impact assessment

AGENCIES

- Department of Transportation

DAILY UPDATES

October 11, 2018

- **FEMA Crowdsourcing**
 - **Existing Crowdsourcing Platforms**
 - [Waze](#) provides real-time traffic and road conditions from Waze users through a navigation app or an online editable map.
 - [Google Maps Traffic](#) provides real-time traffic conditions based on passive collection of mobile phone location and speed. You can pull in the live traffic data with this [Google Traffic Layer](#).

October 09, 2018

- ESRI
 - WAZE Data:
 - <http://disasterresponse.maps.arcgis.com/home/item.html?id=075a284c8a6b4ce0ae10e4483cdeceb8>

12. LIFELINE 7: HAZARDOUS WASTE

HAZARDOUS WASTE

KEY CONCERNS

Oil and Hazardous Materials Response

- Oil and hazardous materials (chemical, biological, radiological, etc.) response
- Environmental short- and long-term cleanup

Agriculture and Natural Resources

- Nutrition assistance
 - Animal and plant disease and pest response
 - Food safety and security
 - Natural and cultural resources and historic properties protection
 - Safety and well-being of household pets
-

AGENCIES

- Environmental Protection Agency
 - Department of Agriculture
-

DAILY UPDATES

October 11, 2018

- **FEMA Crowdsourcing**
 - **Digital Volunteer Network Crowdsourcing Projects**
 - [Crisis Cleanup](#) has been stood up (click on Hurricane Michael in incident list) and provides a collaborative disaster work order management platform that improves coordination and reduces duplication of efforts when a large number of volunteer organizations are all working at the same time.

13. ADDITIONAL INFORMATION

FEMA Geospatial Coordination Calls

When? Daily @ 2:00 PM (Eastern)

Where? Conference Bridge: 800-320-4330, Passcode: 247327#

Adobe Connect: <https://fema.connectsolutions.com/geospatialcoordinationcall/>

>> Daily coordination call notes will be posted at the following location:

<https://disasters.geoplatform.gov/publicdata/NationalDisasters/HurricaneFlorence/Documents/GeospatialCoordinationCallNotes/>

>> Register for the FEMA Daily Operations Briefing here:

https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic_id=USDHSFEMA_153

**** Please forward the details of these calls to other interested parties, including state and local representatives.***

>> To be added to the Geospatial Coordination Calls During Disasters mailing list:

https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic_id=USDHSFEMA_1351

>> Questions?

contact us at: FEMA-MDWG@fema.dhs.gov